

What is claimed:

1. A medical device, comprising:
An array comprising microstructures configured to penetrate the stratum corneum upon impact;
A connection member affixed to the array in a one piece construction, the connection member configured to reversibly connect the medical device to an applicator.
2. The medical device as in claim 1, the array further comprising a collar having first and second major surfaces, the microstructures disposed on and affixed to the first major surface and the connection member disposed on and affixed to the second major surface.
3. The medical device as in claim 2, wherein the microstructures comprise a plurality of identically configured members.
4. The medical device as in claim 3, wherein the microstructures are in a circular array.
5. The medical device as in claim 4 wherein the collar is circular and the first major surface comprises a first zone extending from the center of the first major surface, the microstructures disposed within the first zone, and a second zone extending from the first zone to the periphery of the first major surface, the second zone being free of the microstructures.
6. The medical device as in claim 1 wherein the connection member comprises a plurality of leg members having first and second ends thereon, the first ends of the leg members affixed to the array and the second ends of the leg members configured to reversibly connect the medical device to an applicator.
7. The medical device as in claim 6 wherein the connection member comprises three leg members.

8. The medical device as in claim 1 wherein the connection member comprises a single structure having first and second ends thereon, the first end of the connection member affixed to the array and the second end of the connection member configured to reversibly connect the medical device to an applicator.
9. The medical device as in claim 1 wherein the connection member is configured to reversibly connect the device to an applicator by an interference fit.
10. A molded medical device comprised of molded polymeric material and constructed as in claim 1.
11. The molded device of claim 10 wherein the molded polymeric material is selected from the group consisting of polycarbonate, polyetherimide, polyethylene terephthalate, and blends thereof.
12. A medical kit, comprising:
The medical device of claim 1; and
A tray configured to hold the medical device.
13. The medical kit as in claim 12 wherein the tray comprises a first surface and at least one well configured to hold a medical device therein, the well comprising an opening in the first surface so that the medical device, when positioned within the well, is accessible through the opening in the first surface.
14. The medical kit as in claim 13 further comprising a plurality of wells, each well being similarly configured to hold a single medical device therein.
15. The medical kit as in claim 12 wherein the array of the medical device further comprises a collar having first and second major surfaces, the microstructures disposed on and affixed to the first major surface and the connection member disposed on and affixed to the second major surface.

16. The medical kit as in claim 15 wherein the first major surface of the collar comprises a first zone extending from the center of the first major surface, the microstructures disposed within the first zone, and a second zone extending from the first zone to the periphery of the first major surface, the second zone being free of the microstructures.

17. The medical kit as in claim 16 wherein the first surface of the tray defines a substantially planar surface and wherein the well further comprises a shoulder configured to rest against the second zone of the first major surface of the collar without engaging the microstructures in the first zone, the well extending away from the first surface of the tray.

18. The medical kit as in claim 17 wherein the tray further comprises a sealing member disposed over the opening in the first surface to hermetically seal the well when the medical device is retained therein, the sealing member being removable or breakable to permit withdrawal of the medical device from the well.